## What is claimed is:

- 1. A voice-over-Internet protocol (VoIP) device,
- 2 comprising:
- a subscriber line interface circuit serving as an
- 4 interface for communications with a telephone;
- a relay selectively coupled to a public switched
- 6 telephone network (PSTN) or coupled to a VoIP network
- 7 through the subscriber line interface circuit;
- 8 a processor coupled to the subscriber line interface
- 9 circuit to determine whether a transmission from the
- 10 telephone through the subscriber line interface circuit
- 11 is a PSTN phone number or a VoIP phone number, wherein
- 12 when the transmission is a VoIP phone number, the
- 13 processor routes the transmission to the VoIP network,
- 14 and when the transmission is a PSTN phone number, the
- 15 processor instructs the subscriber line interface circuit
- 16 to generate a dual-tone multi-frequency redial number;
- 17 and
- 18 a dual-tone multi-frequency coupling circuit coupled
- 19 between the subscriber line interface circuit and the
- 20 public switched telephone network for receiving the dual-
- 21 tone multi-frequency redial number from the subscriber
- 22 line interface circuit when the transmission is
- 23 determined as a PSTN phone number, and routing the dual-
- 24 tone multi-frequency redial number to the public switched
- 25 telephone network.

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- 1 2. The voice-over-Internet protocol device of
- 2 claim 1, wherein the dual-tone multi-frequency coupling
- 3 circuit comprises:
- 4 a switching element having a first terminal and a
- 5 second terminal and controlled by the processor, wherein
- 6 the switching element is turned on by the processor when
- 7 the transmission is determined as a PSTN phone number;
- 8 a first coupling device coupled between the
- 9 subscriber line interface circuit and the first terminal
- 10 of the switching element for receiving the dual-tone
- 11 multi-frequency redial number from the subscriber line
- 12 interface circuit; and
- 13 a second coupling device coupled between the second
- 14 terminal of the switching element and the public switched
- 15 telephone network for routing the dual-tone multi-
- 16 frequency redial number to the public switched telephone
- 17 network when the switching element is turned on.
  - 1 3. The voice-over-Internet protocol device of
  - 2 claim 2, wherein the first coupling device is a
- 3 capacitor.
- 1 4. The voice-over-Internet protocol device of
- 2 claim 2, wherein the second coupling device is
- 3 transformer.
- 1 5. The voice-over-Internet protocol device of
- 2 claim 2, wherein the switching element is a transistor.
- 1 6. The voice-over-Internet protocol device of
- 2 claim 1, further comprising a data access arrangement for
- 3 detecting the status of the public switched telephone

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- 4 network and instructing the relay to allow the dual-tone
- 5 multi-frequency coupling circuit to transmit the dual-
- 6 tone multi-frequency redial number to the public switched
- 7 telephone network when the public switched telephone
- 8 network is not busy.